

herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. ☑ This communication is responsive to the application/flied 2/10/2004.  2. ☑ The allowed claim(s) is/are 1-20.  3. ☑ The drawings filed on 10 February 2004 are accepted by the Examiner.  4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  1181 THREE MONTH FRIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☐ hereto or 2) ☐ to Paper No./Mail Date II.  (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date III.  (c) ☐ including changes required by the attached Examiner's Patent Drawing Review (PTO-948) attached Examiner's Comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL		Application No.	Applicant(s)		
Examiner	Notice of Allowability	10/774.574 YUMOTO ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address- All claims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application. Into included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon potition by the applicant. Sea 37 CFR 1.313 and MPEP 1308.  1. ☑ This communication is responsive to the application filed 2/10/2004.  2. ☑ The allowed claim(s) is/are 1-20.  3. ☑ The drawings filed on 10 February 2004 are accepted by the Examiner.  4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b) □ Some* c) □ None of the:  1. ☑ Certified copies of the priority documents have been received in Application No. □ Cartified copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies on treceived: □ Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  **THIS THREE.MONTH PERIOD IS NOT EXTENDABLE.**  5. □ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  6. □ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (b) □ Including changes required by the Notice of Orstoperson's Patent Drawing Review (PTO-948) attached  1) □ heretor or 2) □ to Paper No.Mail Date □  (c) □ including changes required by the Notice of Praperson's Patent Drawing Review (PTO-948) attached Examiner's Comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MA					
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	<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/18 and 2/10/2004</li> <li>Examiner's Comment Regarding Requirement for Deposit</li> </ol>	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's 8. ☑ Examiner's	lummary (PTO-413), /Mail Date Amendment/Comment  Statement of Reasons for Allowand		

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

**Notice of Allowability** 

Part of Paper No./Mail Date 20050804

Application/Control Number: 10/774,574

Art Unit: 2838

## **DETAILED ACTION**

Page 2

This Office action is in answer to the application filed 2/10/2004.

## **Allowable Subject Matter**

1. Claims 1-20 are allowed.

With regard to claims 1-20: none of the references of record prior to applicant's filing date discloses, teaches, or suggests an estimating apparatus and method for a secondary cell comprising, *inter alia*, an open-circuit voltage calculating section that calculates an open-circuit voltage Vo using the current I, the terminal voltage V, and the parameter estimated values  $\Theta$ ; an input enabling power estimating section that estimates an input enabling power  $P_{in}$  of the secondary cell on the basis of the parameter estimated values  $\Theta$  and open-circuit voltage Vo; and an output enabling power estimating section that estimates an output enabling power  $P_{out}$  of the secondary cell on the basis of the parameter estimated values and the open-circuit voltage Vo, the equation 1 being V = (B(s)/A(s))I + (1/C(s))VO, wherein A(s), B(s), C(s) are determined by equations, "s" denotes a Laplace transform operator, and A(s), B(s), and C(s) denote each poly-nominal of "s" (n denotes degrees).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Pia Tibbits whose telephone number is (571) 272-2086. If unavailable, contact the Supervisory Patent Examiner Mike Sherry whose telephone number is (571) 272-2084. The Technology Center Fax number is (703) 872-9306.
- 3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number: 10/774,574 Page 3

Art Unit: 2838

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PFT

Pia Tibbits

August 4, 2005

Primary Patent Examine